NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/W14/2022-23/RL-C1

Date: 16-11-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development of parks at Manjunathanagara Ramaiah layout and Soap factory Layout in Dasarahalli Zone ward No.14.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	152 min	Shall not be less than 30 min
2	Final setting time	266 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.84 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.06 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.27 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Soap Factory Park

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT BANGALORE, #304, First floor, 6th Cross,Gidadakonenahalli, Viswaneedam Post, Bangalore-560091. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/W14/2022-23/RL-PCC1

Date: 16-11-2022

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Development of parks at Manjunathanagara Ramaiah layout and Soap factory Layout in Dasarahalli Zone ward No.14.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	98.70	85-100	95 – 100
20mm	53.40	0 -20	30- 70
10mm	16.20	0 -5	10- 35
4.75mm	2.90	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	98.20	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	86.70	60-95	75-100	85-100	
01.18	67.10	30-70	55-90	75-100	
600. mic	46.30	15-34	35-59	60-79	
300.mic	19.90	5-20	8-30	12-40	
150.mic	5.60	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Soap Factory Park

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT ★ Bangalore ★

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NEWZEN CONSULTANTS BANGALORE
NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/W14/2022-23/RL-CE1 Date: 19-11-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development of parks at Manjunathanagara Ramaiah layout and Soap factory Layout in Dasarahalli Zone ward No.14.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**182 min**	Shall not be less than 30 min
2	Final setting time	**257 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.78 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.86 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**27.96 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Soap Factory Park

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP Bangalore

NEWZEN CONSULTANT Bangalore

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NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/W14/2022-23/RL-CB2

Date: 10-12-2022

I. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Development of parks at Manjunathanagara Ramaiah layout and Soap factory Layout in Dasarahalli Zone ward No.14.}

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-11-22	10-12-22	07	22500	335	14.89	15.26
	002	"	"	"	"	350	15.56	
	003	"	"	"	"	345	15.33	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Ramaiah Layout Park

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/W14/2022-23/RL-CB2A

Date: 31-12-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
(Project*: Development of parks at Manjunathanagara Ramaiah layout and Soap factory Layout in Dasarahalli Zone ward No.14.)
Ref: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-11-22	31-12-22	28	22500	495	22.00	21.63
	002	"	"	"	"	480	21.33	
	003	"	"	"	"	485	21.56	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Ramaiah Layout Park

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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NEW TECHNOLOGIES TO INNOVATE

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Ref: PMC/PD/W14/2022-23/RL-CB3

Date: 21-12-2022

TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

Project: Development of parks at Manjunathanagara Ramaiah layout and Soap factory Layout in Dasarahalli Zone ward No.14.}

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl. No.	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	14-12-22	21-12-22	07	22500	385	17.11	17.41
2	002	"	"	"	"	390	17.33	
3	003	"	"	"	"	400	17.78	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Ramaiah Layout Park

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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NEW TECHNOLOGIES TO INNOVATE

/974/2022-23/RL-K1 Date: 13-12-2022

TEST REPORT

Pre-cast Material-Kerb Stones.
Development of parks at Manjunathanagara Ramaiah layout and Soap factory Layout in Dasarahalli Zone ward No.14.}
Testing PMC/22-23,
Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

SICAL TESTS ON KERB STONES :

Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
0.415	2486.56	1.70	0.960	31.95	16.27	17.57	16.87	21.09
0.398	2384.70	1.70	0.960	31.64	16.11	17.40	16.71	20.88
0.404	2420.65	1.70	0.960	31.82	16.21	17.50	16.80	21.00

nit of the materials tested meets the standards and hence can be used for the work.
Collected Site : MEI Layout Part-4

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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/NCB/14/2022-23/RL-K3

Date: 21-12-2022

TEST REPORT

...ay of Pre-cast Material-Kerb Stones.
... Development of parks at Manjunathanagara Ramaiah layout and Soap factory Layout in
... Dasarahalli Zone ward No.14.}
...erial testing/PMC/22-23,
...quested for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
...ple Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

...SICAL TESTS ON KERB STONES :

...ple Id & Location	Core Wt (Kg)	Density of Core (kg / m³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm²)	Equivalent Cube Compressive Strength (N/mm²)
...300	0.411	2462.60	1.70	0.960	32.02	16.31	17.61	16.91	21.13
...300	0.399	2390.69	1.70	0.960	32.24	16.42	17.73	17.02	21.28
...300	0.401	2402.68	1.70	0.960	32.15	16.37	17.68	16.98	21.22

...sult of the materials tested meets the standards and hence can be used for the work.
...e Collected Site : Nele Maheshwari Park

Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore

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